

Appl. No. 09/610,749
Response dated September 10, 2004
Reply to Office Action of June 10, 2004

IN THE CLAIMS

Claim 1 (Original) A method for communicating between a first device and a second device using at least one variable parameter, said method comprising the steps of:

transmitting a message from the first device to the second device, said message including information indicating a length of a sequence number field included in each of a plurality of transmission frames;

receiving said message at the second device;

storing, in response to receiving said message, said information in the second device;

transmitting said plurality of transmission frames from the first device;

receiving said plurality of transmission frames at the second device and processing each sequence number field of said plurality of transmission frames according to said information stored in the second device.

Claim 2 (Original) The method of claim 1, wherein said message, said information and said plurality of transmission frames comprise a first message, second information and, first plurality of transmission frames, respectively, and wherein said method of further comprises the steps of:

transmitting, in response to receiving said first message, a second message from the second device to said first device, said second message including second information indicating a length of a sequence number field included in each of a second plurality of transmission frames;

receiving said second message at the first transceiving device;

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storing in response to receiving said second message, said second information in the first device;

transmitting said second plurality of transmission frames from the second device; and

receiving said second plurality transmission frames at the first transceiving device, and processing each sequence number field of said second plurality of transmission frames according to said information stored in said first device.

Claim 3 (Original) The method of claim 2, wherein said first and second messages comprise RLP control frames, and wherein said first and second plurality of transmission frames comprise RLP data frames.

Claim 4 (Original) A mobile station for operation in a telecommunications system having a base station, wherein data is transmitted from the base station in transmission frames, said mobile station comprising:

a receiver for receiving a message from the base station, said message including information indicating the length of a sequence number included in each of a sequence of transmission frames, said receiver further for receiving said sequence of transmission frames, subsequent to receiving said message;

a memory device; and

a controller coupled to said receiver and said memory device, said controller for receiving said information from said receiver, storing said information in said memory device, and processing each sequence number field of said sequence of transmission frames according to said information.

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Claim 5 (Original) The mobile station of claim 4, wherein said sequence of transmission frames comprises a first sequence of transmission frames, said message comprises a first message, and, wherein data is transmitted from said mobile station to said base station in a second sequence of transmission frames and wherein said mobile station further comprises a transmitter for transmitting said second sequence of transmission frames, and wherein said controller, further, generates a second message, said second message including information indicating the length of a sequence number included in each of said second sequence of transmission frames, and initiates transmission of said second message to said base station from said transmitter prior to transmitting said second sequence of transmission frames.

Claim 6 (Original) The mobile station of claim 5, wherein said first and second messages comprise RLP control frames and said first and second sequences of transmission frames comprise RLP data frames.

Claim 7 (Original) A method for transmitting data between a mobile station and a base station in a wireless communications system, comprising steps of:

prior to transmitting data, exchanging communications control information between the mobile station and the base station, the control information comprising a first field for specifying a length of a variable length data frame sequence;

storing the exchanged information in both the mobile station and the base station; and

subsequently transmitting frames of data in accordance with the stored information.

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Claim 8 (Original) A method as in claim 7, wherein the wireless communications system is implemented as a DS-CDMA system.

Claim 9 (Previously presented) A mobile station for operation in a telecommunications system having a base station, wherein data is transmitted from the base station in transmission frames, said mobile station comprising:

a receiver for receiving a message from the base station, said message including information indicating a maximum number of retransmission requests to be transmitted from said mobile station for a transmission frame missing from a sequence of transmission frames, said receiver further for receiving said sequence of transmission frames, subsequent to receiving said message;

a memory device; and

a controller coupled to said receiver and said memory device, said controller for receiving said information from said receiver, storing said information in said memory device, and processing and initiating retransmission requests according to said information.

Claim 10 (Previously presented) The mobile station of claim 9, wherein said transmission frame missing from a sequence of transmission frames includes erroneous transmission frames that are received.

Claim 11 (Previously presented) The mobile station of claim 9, wherein said sequence of transmission frames comprises a first sequence of transmission frames, said message comprises a first message, and, wherein data is transmitted from said mobile station to said base station in a second sequence of transmission frames and wherein said mobile station further comprises a transmitter for transmitting said second sequence of

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transmission frames, and wherein said controller, further, generates a second message, said second message including information indicating a maximum number of retransmission requests to be transmitted from said base station for a transmission frame missing from a sequence of transmission frames, and initiates transmission of said second message to said base station from said transmitter prior to transmitting said second sequence of transmission frames.

Claim 12 (Previously presented) The mobile station of claim 11, wherein said first and second messages comprise RLP control frames and said first and second sequences of transmission frames comprise RLP data frames.

Claim 13 (Previously presented) A method of processing data received by a mobile station from a telecommunications system having a base station, wherein data is transmitted from the base station in transmission frames, said method comprising:

receiving a message from the base station, said message including information indicating a maximum number of retransmission requests to be transmitted from said mobile station for a transmission frame missing from a sequence of transmission frames;

receiving said sequence of transmission frames, subsequent to receiving said message;

storing said information in said memory device; and

processing and initiating retransmission requests according to said information.

Claim 14 (Previously presented) The method of claim 13, wherein said transmission frame missing from a sequence of transmission frames includes erroneous transmission frames that are received.

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Claim 15 (Previously presented) The method of claim 13, wherein said sequence of transmission frames comprises a first sequence of transmission frames, said message comprises a first message and wherein said method further comprises:

transmitting data from said mobile station to said base station in a second sequence of transmission frames;

generating a second message, said second message including information indicating a maximum number of retransmission requests to be transmitted from said base station for a transmission frame missing from a sequence of transmission frames; and

initiating transmission of said second message to said base station from said mobile station prior to transmitting said second sequence of transmission frames.

Claim 16 (Previously presented) The method of claim 15, wherein said first and second messages comprise RLP control frames and said first and second sequences of transmission frames comprise RLP data frames.

Claim 17 (Previously presented) A base station for operation in a telecommunications system having a mobile station, wherein data is transmitted from the mobile station in transmission frames, said base station comprising:

a receiver for receiving a message from the mobile station, said message including information indicating the length of a sequence number included in each of a sequence of transmission frames, said receiver further for receiving said sequence of transmission frames, subsequent to receiving said message;

a memory device; and

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a controller coupled to said receiver and said memory device, said controller for receiving said information from said receiver, storing said information in said memory device, and processing each sequence number field of said sequence of transmission frames according to said information.

Claim 18 (Previously presented) The base station of claim 17, wherein said sequence of transmission frames comprises a first sequence of transmission frames, said message comprises a first message, and, wherein data is transmitted from said base station to said mobile station in a second sequence of transmission frames and wherein said base station further comprises a transmitter for transmitting said second sequence of transmission frames, and wherein said controller, further, generates a second message, said second message including information indicating the length of a sequence number included in each of said second sequence of transmission frames, and initiates transmission of said second message to said mobile station from said transmitter prior to transmitting said second sequence of transmission frames.

Claim 19 (Previously presented) The base station of claim 18, wherein said first and second messages comprise RLP control frames and said first and second sequences of transmission frames comprise RLP data frames.

Claim 20 (Previously presented) A base station for operation in a telecommunications system having a mobile station, wherein data is transmitted from the mobile station in transmission frames, said base station comprising:

a receiver for receiving a message from the mobile station, said message including information indicating a maximum number of retransmission requests to be transmitted from said base station for a transmission frame missing from a sequence of transmission frames, said receiver further for

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receiving said sequence of transmission frames, subsequent to receiving said message;

a memory device; and

a controller coupled to said receiver and said memory device, said controller for receiving said information from said receiver, storing said information in said memory device, and processing and initiating retransmission requests according to said information.

Claim 21 (Previously presented) The base station of claim 20, wherein said transmission frame missing from a sequence of transmission frames includes erroneous transmission frames that are received.

Claim 22 (Previously presented) The base station of claim 20, wherein said sequence of transmission frames comprises a first sequence of transmission frames, said message comprises a first message, and, wherein data is transmitted from said base station to said mobile station in a second sequence of transmission frames and wherein said base station further comprises a transmitter for transmitting said second sequence of transmission frames, and wherein said controller, further, generates a second message, said second message including information indicating a maximum number of retransmission requests to be transmitted from said mobile station for a transmission frame missing from a sequence of transmission frames, and initiates transmission of said second message to said mobile station from said transmitter prior to transmitting said second sequence of transmission frames.

Claim 23 (Previously presented) The mobile station of claim 20, wherein said first and second messages comprise RLP control frames and said first and second sequences of transmission frames comprise RLP data frames.

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Claim 24 (Previously presented) A method of processing data received by a base station operating in a telecommunications system having a mobile station, wherein data is transmitted from the mobile station in transmission frames, said method comprising:

receiving a message from the mobile station, said message including information indicating a maximum number of retransmission requests to be transmitted from said base station for a transmission frame missing from a sequence of transmission frames,

receiving said sequence of transmission frames, subsequent to receiving said message;

storing said information; and

processing and initiating retransmission requests according to said information.

Claim 25 (Previously presented) The method of claim 24, wherein said transmission frame missing from a sequence of transmission frames includes erroneous transmission frames that are received.

Claim 26 (Currently amended) The method of claim 24, wherein said sequence of transmission frames comprises a first sequence of transmission frames, said message comprises a first message, and, wherein ~~and wherein~~ said method further comprises:

transmitting data from said base station to said mobile station in a second sequence of transmission frames ;

generating a second message, said second message including information indicating a maximum number of retransmission requests to be transmitted from said mobile station for a transmission frame missing from a sequence of transmission frames; and

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initiating transmission of said second message to said mobile station from said base station prior to transmitting said second sequence of transmission frames.

Claim 27 (Previously presented) The method of claim 26, wherein said first and second messages comprise RLP control frames and said first and second sequences of transmission frames comprise RLP data frames.

Claim 28 (New) A method of operation of a mobile station operation in a wireless communications system, said method comprising:

receiving a message at said mobile station, said message comprising information indicating the length of a sequence number field included in each of a sequence of transmission frames;

receiving said sequence of transmission frames, subsequent to receiving said message;

storing said information; and

processing each sequence number field of said sequence of transmission frames according to said information.

Claim 29 (New) The method of claim 28, wherein said sequence of transmission frames comprises a first sequence of transmission frames, said message comprises a first message, and, wherein and wherein said method further comprises:

transmitting data from said mobile station in a second sequence of transmission frames; and

transmitting a second message prior to transmitting said second sequence of transmission frames, said second message including information

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indicating the length of a sequence number included in each of said second sequence of transmission frames.

Claim 30 (New) The method of claim 29, wherein said first and second messages comprise RLP control frames and said first and second sequences of transmission frames comprise RLP data frames.

Claim 31 (New) A method of operation of a base station operation in a wireless communications system, said method comprising:

receiving a message at said base station, said message comprising information indicating the length of a sequence number field included in each of a sequence of transmission frames;

receiving said sequence of transmission frames at the base station, subsequent to receiving said message; and

processing each sequence number field of said sequence of transmission frames according to said information.

Claim 32 (New) The method of claim 31, wherein said sequence of transmission frames comprises a first sequence of transmission frames, said message comprises a first message, and, wherein said method further comprises:

transmitting data from said base station in a second sequence of transmission frames;

transmitting a second message prior to transmitting said second sequence of transmission frames, wherein said second message includes information indicating the length of a sequence number included in each of said second sequence of transmission frames.

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Claim 33 (New) The base station of claim 32, wherein said first and second messages comprise RLP control frames and said first and second sequences of transmission frames comprise RLP data frames.